www.millsteelframing.com | 2905 Lucerne Dr. SE Grand Rapids, MI 49546 | (812) 670-4195

ProTRAK®

400PDT125-30G60

Product Description **4" ProTrak®30MIL (30mil) 1-1/4" leg G60**

Coating G60

Physical Properties

Design Thickness (in)	0.0312
Minimum Thickness (in)	0.0296
Web Width (in)	4
Flange Width (in)	1.25
Yield Strength (ksi)	33

Gross Section Properties	
Cross Sectional Area (A)	0.203
Moment of Inertia (Ix)	0.489
Radius of Gyration (Rx)	1.553
Gross Moment of Inertia (Iy)	0.028
Gross Radium of Gyration (Ry)	0.371

Effective Section Properties	
Effective Area (Ae)	0.088
Moment of Inertia for deflection (Ixe)	0.417
Section Modulus (Sxe)	0.172
Allowable Bending moment (Ma)	3407
Allowable shear force in web (U)(Vag)	683

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.06573
Warping constant (Cw)	0.084
Distance from shear center to neutral axis (Xo)	-0.633
Radii of gyration (Ro)	1.718
Torsional flexural constant (Beta)	0.864

ASTM & Code Standards

- AISI S100-07 & S220-11
- Meets or exceeds ASTM C645 & C754
- ASTM E119, E72, & E90
- ATI CCRR-0207
- LA RR 26019

Section Properties Table Notes

1. Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-15, North American Standard for Cold-Formed Steel Framing - NonStructural Members.
2. Effective Properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
3. Tabulated gross properties including torsional properties are based on full-unreduced cross section of the studs, away from punchouts.
4. For deflection calculations, use the effective moment of inertia.
5. Allowable moment includes cold-work of forming.
6. Allowable moment is taken as the lowest value based on loacl or distortional buckling. Distortional buckling strength is based on a k-phi = 0.

Mill Steel Framing LEED Green Credits

MR Credit 2 • ConstructionWaste Management – Mill Steel Framing steel framing is 100% recyclable

MR Credit 4 • Recycled Content – Mill Steel Framing products contain no less than 25.5% post-consumer and 6.8% pre-consumer recycled content

MR Credit 5 • Regional Materials – Mill Steel Framing has manufacturing facilities in Indiana, Alabama & Texas

V4 MR Credits • Building Product Disclosure and Optimization EPD (1 point)
• Materials Ingredients (1 point) – Construction and Demolition Waste Management (1 point)